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Product	Optidrive Elevator

Title	Optidrive Elevator drive trips and the drive action on the trip
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Summary	This document gives information on the Optidrive Elevator drive trips and the drive reaction on the trip
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NOTE: Please read in conjunction with the Optidrive Elevator User Guide.

Overview

The Optidrive Elevator has a number of fault trips which will occur if the drive detects a fault etc.

When a trip occurs, the drive will carry out one of the following depending on the trip:

- Immediate Trip, Coast Stop, Apply Motor Brake
- Normal Stop, trip after stopping
- Normal Stop, trip on next time enable
- Behaviour depends on P5-05 and P5-06

Below is a table of all of the Optidrive Elevator trips and the drive reaction when a particular trip occurs.

Fault Code	No.	Description	Drive Reaction
OI-b	01	Brake channel over current	Immediate Trip, Coast Stop, Apply Motor Brake
OL-br	02	Brake resistor overload	Normal Stop, trip after stopping
O-I	03	Instantaneous over current	Immediate Trip, Coast Stop, Apply Motor Brake
I.t-trp	04	Motor Thermal Overload (I^2t)	Immediate Trip, Coast Stop, Apply Motor Brake
PS-trP	05	Hardware Over-current	Immediate Trip, Coast Stop, Apply Motor Brake
O-Volt	06	Over voltage on DC bus	Immediate Trip, Coast Stop, Apply Motor Brake
U-Volt	07	Under voltage on DC bus	Immediate Trip, Coast Stop, Apply Motor Brake
O-t	08	Heatsink over temperature	Normal Stop, trip after stopping
U-t	09	Under temperature	Normal Stop, trip after stopping
E-trip	11	External trip	Immediate Trip, Coast Stop, Apply Motor Brake
SC-ObS	12	Optibus comms loss	Immediate Trip, Coast Stop, Apply Motor Brake
FLt-dc	13	DC bus ripple too high	Normal Stop, trip on next time enable
P-LOSS	14	Input phase loss trip	Normal Stop, trip on next time enable
h O-I	15	Instantaneous over current on drive output.	Immediate Trip, Coast Stop, Apply Motor Brake
th-Flt	16	Faulty thermistor on heatsink.	Normal Stop, trip after stopping
dAtA-F	17	Internal memory fault. (IO)	Immediate Trip, Coast Stop, Apply Motor Brake
4-20 F	18	4-20mA Signal Lost	Normal Stop, trip after stopping
dAtA-E	19	Internal memory fault. (DSP)	Immediate Trip, Coast Stop, Apply Motor Brake
F-Ptc	21	Motor PTC thermistor trip	Normal Stop, trip after stopping
FAN-F	22	Cooling Fan Fault	Normal Stop, trip after stopping
O-hEAt	23	Environmental temperature too high	Normal Stop, trip after stopping
Out-F	26	Drive output fault	Immediate Trip, Coast Stop, Apply Motor Brake
Sto-F	29	Safety input circuit error (Buffer output)	Immediate Trip, Coast Stop, Apply Motor Brake
Enc-01	30	Encoder comms/data loss	Immediate trip
Enc-02	31	Encoder speed error	Immediate trip
Enc-03	32	Incorrect Encoder PPR count set in parameters	Immediate trip
Enc-04	33	Encoder Channel A Fault	Immediate trip
Enc-05	34	Encoder Channel B Fault	Immediate trip
Enc-06	35	Encoder Channels A & B Fault	Immediate trip
AtF-01	40	Measured motor stator resistance varies between phases.	Immediate Trip, Coast Stop, Apply Motor Brake
AtF-02	41	Measured motor stator resistance is too large.	Immediate Trip, Coast Stop, Apply Motor Brake
AtF-03	42	Measured motor inductance is too low.	Immediate Trip, Coast Stop, Apply Motor Brake
AtF-04	43	Measured motor inductance is too large.	Immediate Trip, Coast Stop, Apply Motor Brake
AtF-05	44	Measured motor parameters are not convergent	Immediate Trip, Coast Stop, Apply Motor Brake

Fault Code	No.	Description	Drive Reaction
SC-F01	50	Modbus comms loss fault	Behaviour depends on P5-05 and P5-06
SC-F02	51	CANopen comms loss trip	Behaviour depends on P5-05 and P5-06
SC-F03	52	Anybus module comms loss trip	Behaviour depends on P5-05 and P5-06
SC-F04	53	IO card comms loss trip	Immediate Trip
OF-01	60	Internal link to option module loss	Immediate Trip
OF-02	61	Option module in exceptional condition	Immediate Trip
PLC-01	70	Unsupported PLC function block	Immediate Trip, Coast Stop, Apply Motor Brake
PLC-02	71	PLC program over size	Immediate Trip, Coast Stop, Apply Motor Brake
PLC-03	72	Divide by 0	Immediate Trip, Coast Stop, Apply Motor Brake
PLC-04	73	Lower limit large than higher limit	Immediate Trip, Coast Stop, Apply Motor Brake
PLC-05	74	Table function block index overflow	Immediate Trip, Coast Stop, Apply Motor Brake